

# INTEGRATION METHOD FOR DIFFERENT INFORMATION PLATFORMS IN A DECISION-MAKING SYSTEM

## BACKGROUND OF THE INVENTION

### Field of the Invention

5 The invention relates to an information integration method. More particularly, the invention relates to a method for integrating different information platforms through a decision-making system that is applied to enterprise group operations.

### Related Art

10 With expanding information technologies and enterprise scales, traditional concept of materials distribution management cannot satisfy the needs by modern businesses. Therefore, an SCM (supply chain management) by integrating all sorts of data and concerns is invented. The supply chain is mainly focused on material distributions and warehousing. However, the platforms used by different companies in the supply chain may be different. In addition, current information platform development is narrowly discussing how to expand its function  
15 without paying attention to integrating data in different information platforms. With reference to FIG. 1, a plurality of information platforms 10a~10n is provided for a plurality of users 50a~50n to use. The same information platform in 10a~10n is often shared by different users 50a~50n. For example, the information platform 10b is used by the users 50a and 50b together; but they also simultaneously use other information platforms 10a~10n. When the  
20 user wants to make data transfer or transmission, incompatibility resulted from different data formats often disallows information sharing and causes business losses.

Accordingly, it is an important subject to unify information in an enterprise and integrate different information platforms of a group decision-making system.

## SUMMARY OF THE INVENTION

In view of the foregoing, the invention provides an integration method for different information platforms in a decision-making system. A major objective of the invention is to solve the problem of having too many information platforms while being unable to effectively integrate them in normal enterprises. Using the disclosed method, related data in different information platforms can be integrated and organized through operations among the databases. An integration platform is employed to manage the data, to establish communications among data flows, and to avoid unnecessary data waste or misuses. Moreover, through the disclosed data transmission method the data format at a user end can be readily converted into the one that the enterprise can recognize.

The method includes at least the following steps: the enterprise downloads at least one set of data from an information platform to a shared folder; a database server integrates the data in the shared folder; the computed data are moved to an integration platform; the enterprise selects a particular method to distribute the integrated data; and the user receives the data.

## BRIEF DESCRIPTION OF THE DRAWINGS

The invention will become more fully understood from the detailed description given hereinbelow illustration only, and thus are not limitative of the present invention, and wherein:

FIG. 1 is a schematic view of the prior art;

FIG. 2-a shows a schematic structure of the disclosed integration method;

FIG. 2-b shows a schematic structure of the disclosed integration method;

FIG. 3-a is a flowchart of the disclosed integration method; and

FIG. 3-b is a flowchart of the disclosed integration method.

## DETAILED DESCRIPTION OF THE INVENTION

The invention provides a method to integrate information among different information platforms in decision-making systems, particularly for the SCM (Supply Chain Management) and ERP (Enterprise Resource Planning) currently proposed in the market. Its objectives are to make effective use and management of enterprise resources, to modernize and integrate the processing procedures for data exchanges in different platforms, and to lower the operation costs of the company.

This specification uses a preferred embodiment to demonstrate the feasibility of the invention. Please refer to FIGS. 2-a and 2-b for the system structure of the invention. As shown in FIG. 2-a, the invention builds this system structure into an ERP server of the enterprise, which has a plurality of information platforms 10a~10n. All data are stored in a shared folder 60. A database server 100 is provided to connect with an integration platform 30 through an Intranet 20, which may be an Ethernet. As shown in FIG. 2-b, the integration platform 30 is connected to the users 50a~50n through a backbone 40. The backbone 40 is used for data transmission and refers to any network structure and style with the functions of communications and data transmissions. The database 100 may be an SQL (structured query language) server.

The information can be distributed by the integration platform. It can also be posted in a website outside the corporate, which is installed on a third-party information platform. The invention further provides a data conversion model for the information distribution. The concept of CTO (Configure To Order) is used to achieve the objective of network data transmission. Different tables and fields are provided for different needs so that users can more efficiently and easily obtain desired data.

The disclosed method put the conventional concept of data transmission over the World Wide Web. Integration of different data types and a real-time transmission function are applied between the users and the enterprise using technologies of the ERP, the SCM and the

third-party information mediator. The users do not receive data passively, but can transmit and receive data effectively according to the needs. A data transmission unit is provided at the third-party between the users and the enterprise for converting data formats.

With reference to FIGS. 3-a and 3-b, an enterprise first downloads at least one set of data from information platforms 10a~10n to a shared folder 60 (step 200). A database server 100 then integrates the data in the shared folder 60 (step 210). The processed data are moved to an integration platform 30 (step 220). Afterwards, the enterprise selects a particular method to distribute the integrated data (step 230). One method is to distribute information via E-mail (step 240). Another method is to distribute information through a website (step 250). As shown in FIG. 3-b, if one selects to distribute information via E-mail, then an E-mail program starts (step 260) to load information into E-mail messages and to send out the E-mail messages (step 261). Finally, a user obtains the information (step 262) and the procedure finishes. If one selects to distribute information through a website, there are still two possibilities. One is via an internal website, and the other is via an external website. If one selects the internal website, then a user goes to the integration platform 30 and directly reads the information (step 270), then the procedure terminates. If one selects the external website, then the enterprise transmits the data through a backbone to an information mediator (step 280). An information converter is then used to make data format conversions. The information mediator then transmits the data to a target end (step 281). Finally, a user uses a browser to receive the information from the target end (step 282), and the procedure terminates.

The above-mentioned decision-making system is used to filter and select various kinds of data inside and outside the enterprise, and to give related managers and users warnings about how the real situation deviates from the plan. The different information platforms are those incompatible among themselves while having independent operating platforms.

The above-mentioned target end refers to a platform that is provided by the information mediator and stores data of the users and the enterprise.

Before transmitting data from the enterprise to the information mediator, a data converter and a data conversion engine are installed between the enterprise and the information mediator. The data conversion engine belongs to the data converter. When data are transmitted to the information mediator, they go through the data converter and link to a function database through the data conversion engine. The data are then converted by the function database into different formats required by different suppliers. According to the data format conversion method, any data format required by the supplier can be properly obtained, achieving the goal of CTO data transmissions.

The above-mentioned data format conversion using a data converter utilizes the CTO concept to achieve network data transmissions and to setup different tables and fields according to user's different needs.

The target end is a platform provided by the information mediator and stores data of the supplier and the enterprise.

While the invention has been described by way of example and in terms of the preferred embodiment, it is to be understood that the invention is not limited to the disclosed embodiments. To the contrary, it is intended to cover various modifications and similar arrangements as would be apparent to those skilled in the art. Therefore, the scope of the appended claims should be accorded the broadest interpretation so as to encompass all such modifications and similar arrangements.